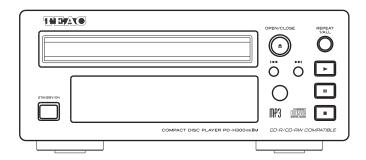
TEAC



SERVICE MANUAL

PD-H300mkIIM

Compact Disc Player



PD-H300mk II M : EUR



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NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- A Parts marked with this sign are safety critical components. They
 must be replaced with identical components refer to the appropriate
 parts list and ensure exact replacement.

Effective: Sep. 2005

1 SPECIFICATIONS

CD P	layer
------	-------

'ickup
requency Response
otal Harmonic Distortion Less than 0.02 % (1 kHz)
ignal-to-Noise Ratio (S/N) More than 90 dB (IHF-A)
lutputs
Digital: TOS OPTICAL
nput/Output Remote control connection x 2(RCA)
Output level
'layable Disc
'layable format

General

Power Requirement
Power Consumption
Dimensions (W x H x D)
Weight (Net)
Operating temperature
Operating humidity
Storage temperature

Note:

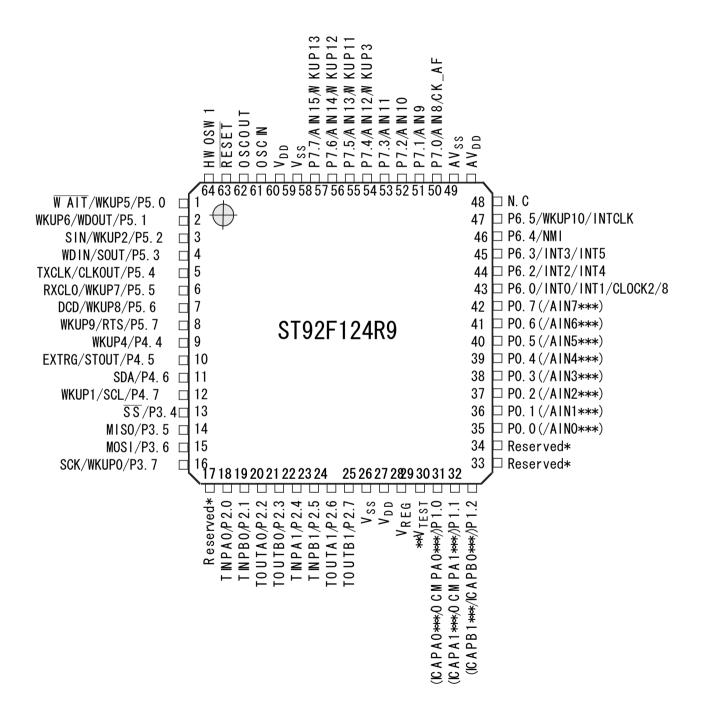
- This unit can play MP3 files with sampling frequency 44.1 kHz or 48 kHz, bit-rate 320 kbps or less.
- This unit can play WMA files with sampling frequency 44.1kHz, bit-rate 192 kbps or less.
- · Design and specifications are subject to change without notice.
- · Weight and dimensions are approximate.
- · Illustrations may differ slightly from production models.

Standard Accessory

RCA cable x 1
Remote control connection cord (RCA) x 1
Remote control unit (RC-1039) x 1
Batteries (AA) x 2
Owner's manual x 1
Warranty card x 1

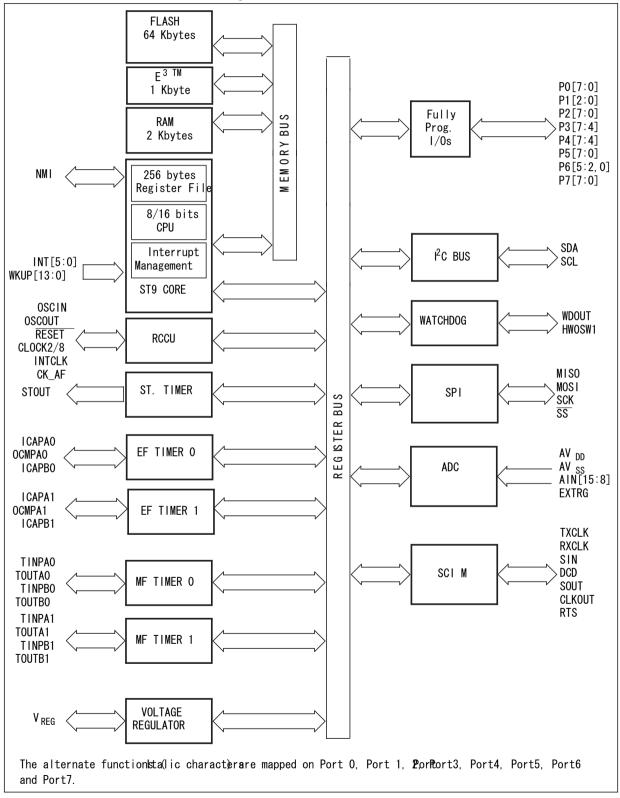
2 IC SPECIFICATIONS

HOST MICROCOMPUTER: ST92F124R9



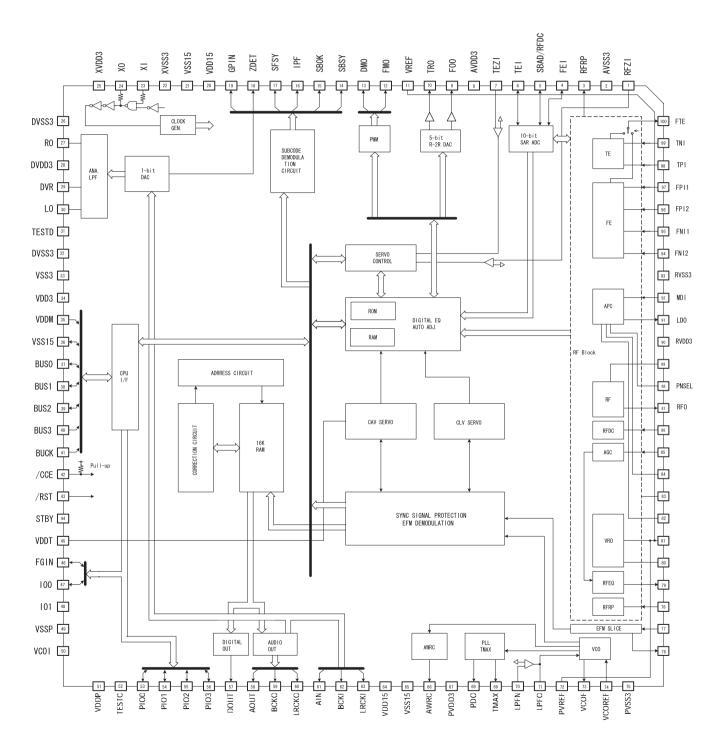
HOST MICROCOMPUTER: ST92F124R9

ST92F124R9: Architectural Block Diagram



CD Block System: TC94A54MFG

Pin Configuration and Block Diagram



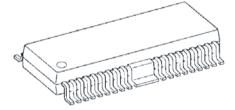
Power Driver IC for CD Player: TA2125AF

TA2125AF is power driver IC developed for CD players.
This IC have built-in 4 channel BTL power amplifiers and 1 channel H-Bridge driver.

Which drives focus-coil and tracking coil for 3-beam pick-up head, disc motor, feed motor and loading motor.

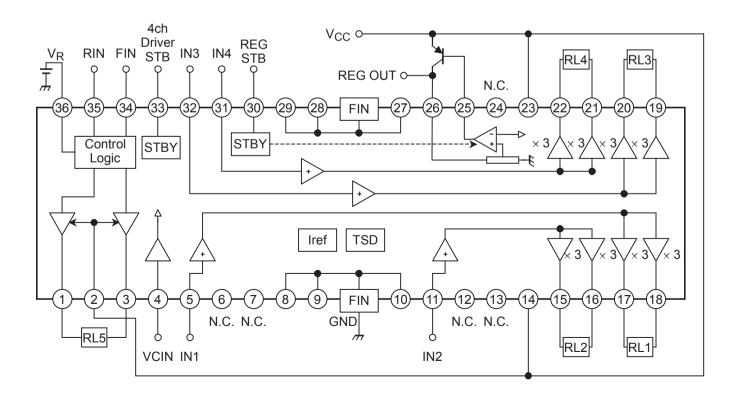
Featuers

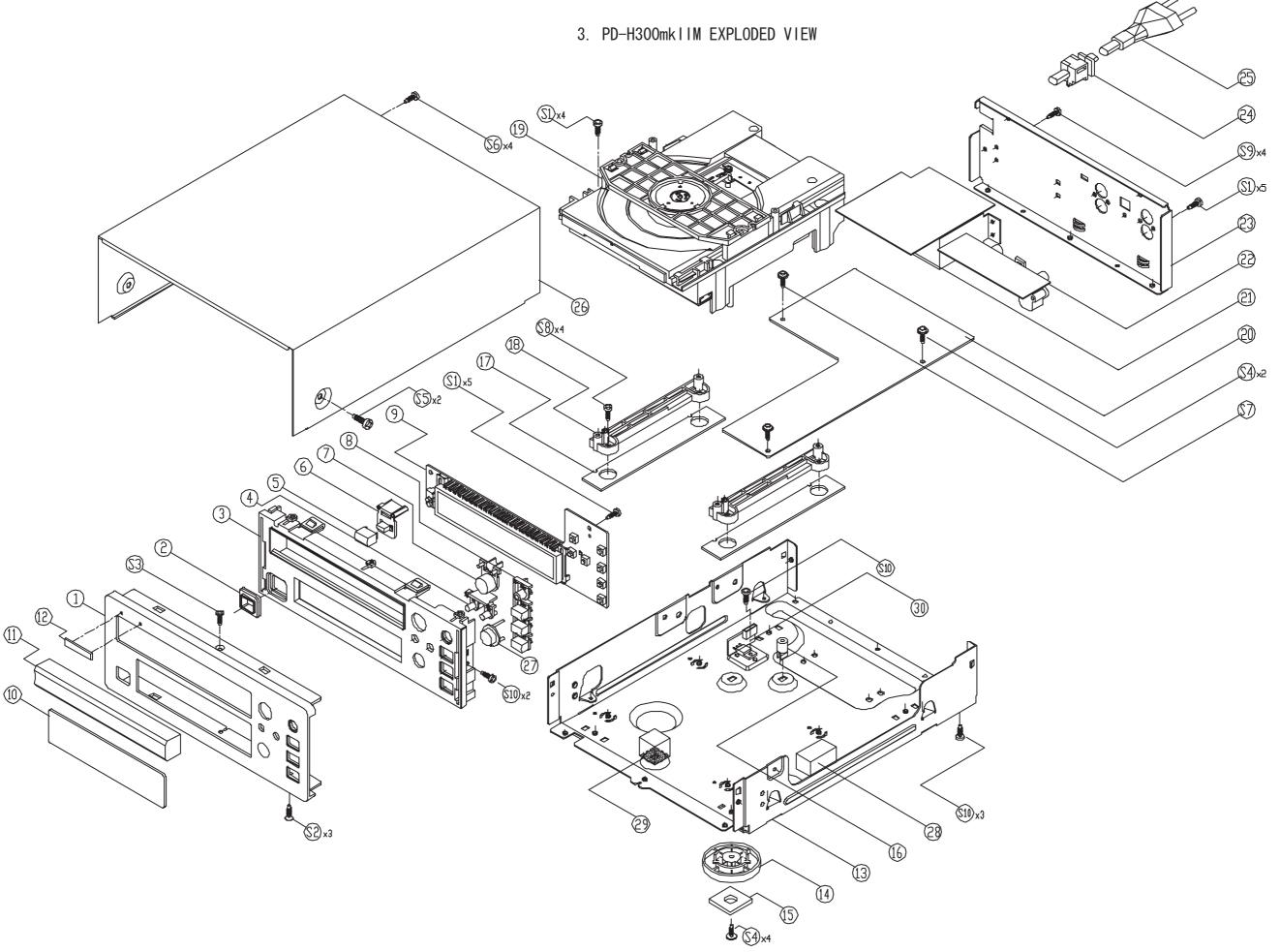
- 4 channel BTL linear drivers High output power: Vout = 5.1 Vp-p (VCC = 8 V, RL = 8 Ω) Stand-by switch for BTL drivers
- 1 channel H-Bridge: VCE (H) + VCE (L) = 1.3 V (VR = VM = 8 V, 10 = 200 mA)
 Logic control (forward, revers, brake, stand-by)
- Punch through current restriction diode for H-bridge
- 5 V regulator reference amp (with external output Tr.)
- Thermal shut down protection
- Operating supply voltage range: VCC = 5.0-9.0 V



HSOP36-P-375-0.80

Block Diagram



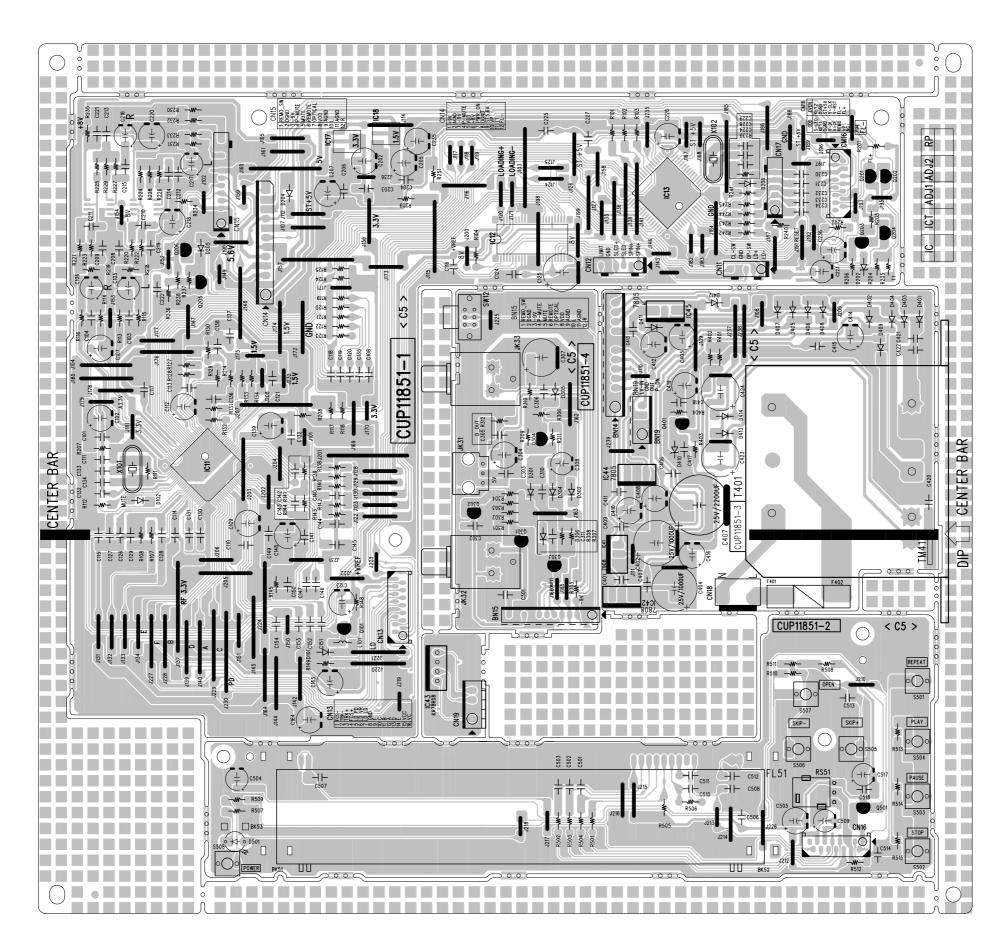


PD-H300mk ${\rm I\!I}$ M

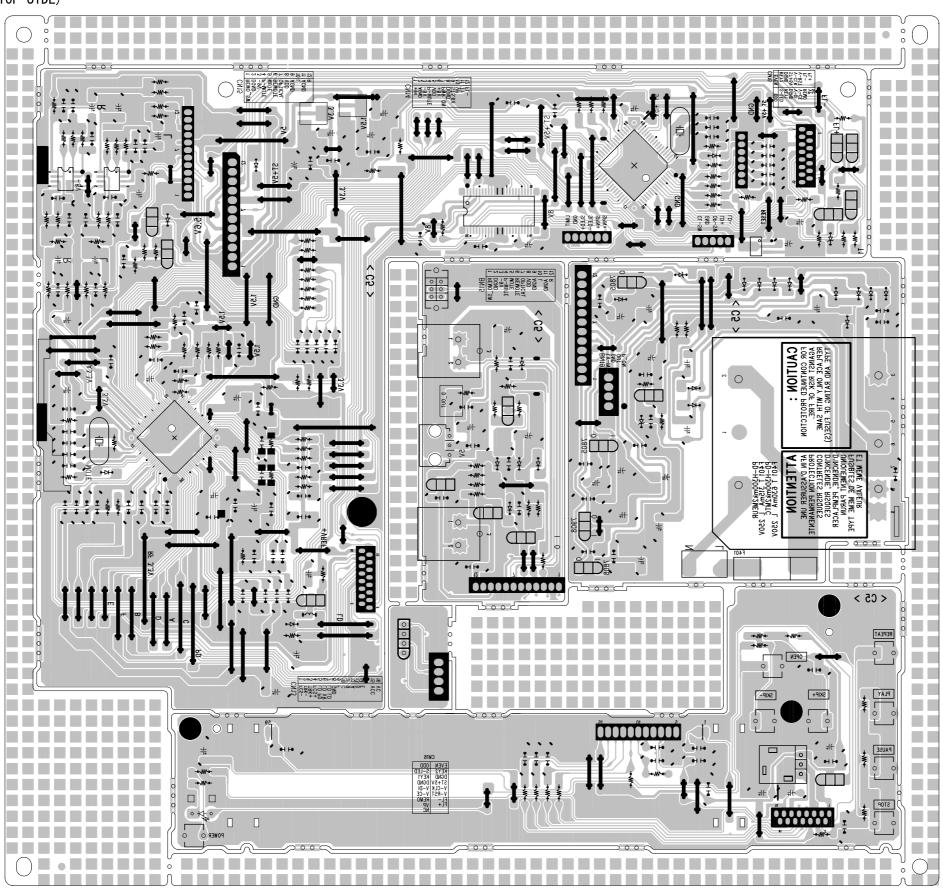
EXPLODED VIEW LIST (PD-H300mk M)			
REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1 2 3 4 5	CKM2A073ZC35 CGL1A133 CGW2A217M7ZG5 CBT1A493MBC22 CBT1A495M7G5	FRONT PANEL (AL) LED INDICATOR SUB PANEL CPS KNOB STANDBY CAP	
6 7 8 9 10	CBT1A483 CBT1A385M7XG5 CBT1A494M7WG5 COP11851C CGU1A154Y	STANDBY KNOB OPEN CLOSE KNOB OPERATION KNOB FRONT PCB FIP WINDOW	
11 12 13 14 15	CGR1A350M7G5 KGB1A047Z CUA2A158 CKL2A055H45 KHG1A05DY	TRAY ORNAMENT BADGE BOTTOM CHASSIS FOOT FOOT CUSHION	
16 17 18 19 20	CHE1A023 KHG1A135 CMH1A074 CJDKSL2130CCM COP11851C	PCB SUPPORT RUBBER, SUPPORT MECHA SUPPORT MECHANISM MAIN PCB	
21 22 23 24 25	CKF2A154Z KHR1A02B ⚠ CJA2B043ZA	PCB (TRANS) PCB (INOUT) REAR PANEL AC CORD BUSHING AC CORD	
26 27 28 29 30	CKC1B089S35 CGU1A261A8 CHG1A054 CHG1A157	TOP CABINET SENSOR WINDOW CUSHION CUSHION IC PCB	
\$1 \$2 \$3 \$4 \$5	CTB3+10G CTS3+8JFC CTS3+10G CTW3+8J CTB4+6FFC	SCREW SCREW SCREW SCREW SCREW	
\$6 \$7 \$8 \$9 \$10	CTB3+8JFC CTW3+16G CHD5A009 CTB3+8JFZ CTB3+6J	SCREW SCREW SCREW SCREW SCREW	

4 PC BOARDS AND PARTS LIST

MAIN PCB (TOP VIEW)



MAIN PCB (VIEW FROM TOP SIDE)



MAIN PCB ASSY (2/4)

MIATIN TOD A	(1/ 7/		MINTIN TOD A	(2/ 7)	
REF.NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
	COP11851B	MAIN+FRONT PCB ASS' Y (PD-H300MK2M)	302-304, 306,	HVD1SS133MT	DIODE
C165, 207	CUP11851Z CCEA1AH101T	PCB, MAIN+FRONT CAP, ELECT	411 D202	HVDMTZJ5. 1BT	DIODE, ZENER
C123, 164, 226		CAP, ELECT	D305	HVDMTZJ9. 1BT	DIODE, ZENER
235, 408, 410,			D501	HVD342YCTB7T089	L. E. D, YELLOW
412			D401-409, 413,	KVD1N4003SRT	DIODE
C218	CCEA1CH220T	CAP, ELECT	414	UVDMT7 120DT	DIODE ZENED
C125, 307 C102, 109, 112	CCEA1CH221T CCEA1CH470T	CAP, ELECT CAP, ELECT	D410 D412	HVDMTZJ30BT HVDMTZJ6. 2BT	DIODE, ZENER DIODE, ZENER
112, 139, 148			F401-402 <u>/</u>	\ KJCFC5S	HOLDER, FUSE
202, 205, 304			L101	HLQ02C100KT	COIL, AXAIL
C423, 424	CCEA1CH471T	CAP, ELECT	Q101, 304	HVTKTA1266YT	T. R
C505 C220, 236	CCEA1CKS101T CCEA1EH101T	CAP, ELECT CAP, ELECT	Q201 Q202	HVTKTC3203YT HVTKSC2316YT	T. R T. R
C216-217, 223		CAP, ELECT	Q203	HVTKSA1175YT	T. R
0416	005411111017	OAD FLEOT	Q204	HVTKSC2785YT	T. R
C416 C107-419	CCEA1HH101T CCEA1HH220T	CAP, ELECT CAP, ELECT	Q205, 303	HVTKRA104MT	T. R
C405	CCEA1HH470T	CAP, ELECT	Q206, 501	HVTKRC107MT	T. R
C105-106, 308 C509, 517	CCEA1HH4R7T CCEA1HKS100T	CAP, ELECT CAP, ELECT	Q301-302 Q401	HVTKTD1302T HVTKSA916YT	T. R T. R
C504 C414	CCEA1HKS1ROT CCEA1JH47OTS	CAP, ELECT CAP, ELECT	R101-103 R104	CRD20TJ183T CRD20TJ471T	RES, CARBON RES, CARBON
C212-213	HCBS1C152MXT	CAP, CERAMIC	R107	CRD20TJ682T	RES, CARBON
	HCBS1C222MXT	CAP, CERAMIC	R108, 311, 506		RES, CARBON RES, CARBON
301–302			R111	CRD20TJ105T	RES, CARDON
	HCBS1C472MXT	CAP, CERAMIC	R112, 127–129,	CRD20TJ104T	RES, CARBON
	HCBS1H101KBT HCBS1H103ZFT	CAP, CERAMIC CAP, CERAMIC	131-134 R113-114	CRD20TJ271T	RES, CARBON
113–117, 121,		57.1 , SETULIATO	R115-116, 202,		RES, CARBON
122, 142, 143,			206, 240, 508,		
145, 219, 221,			512		
224	HCBS1H104ZFT	CAP. CERAMIC	R130, 234–235, 310, 502–504	CRD20TJ221T	RES, CARBON
132, 136, 141,	11003111104211	OAI, GERAMIO	R139	CRD20TJ154T	RES, CARBON
147, 149, 151,			R140-149, 207-	- CRD20TJ1R0T	RES, CARBON
153, 203-204			209, 214		
206, 225, 303,			R141, 145, 236		RES, CARBON
306, 310–311, 401, 403, 406,			R142, 228-229 R143, 230-231,		RES, CARBON RES, CARBON
409, 411, 413			237, 404		,
C415 417-418	HCBS1H104ZFT	CAP, CERAMIC	R144	CRD20TJ683T	RES, CARBON
420-422, 506		57.1 , SETULIATO	R148, 239, 312	CRD20TJ100T	RES, CARBON
507–508, 512 513–514, 518			R201, 203 R204	CRD20TJ222T CRD20TJ101T	RES, CARBON RES, CARBON
	HCBS1H120JCT	CAP, CERAMIC	R205, 232, 233,		RES, CARBON
134–135, 305			238, 306, 401,		
C228-229	HCBS1H150JCT	CAP, CERAMIC	402, 501, 505,		
C140, 152	HCBS1H153KBT	CAP, CERAMIC	511, 515	ODDOOT 1202T	DEC CADDON
C210-211 C214-215	HCBS1H181KBT HCBS1H271KBT	CAP, CERAMIC CAP, CERAMIC	R218-221 R222-223, 226-	CRD20TJ392T - CRD20TJ822T	RES, CARBON RES, CARBON
C130-131 C144, 501-503	HCBS1H333ZFT HCBS1H470JT	CAP, CERAMIC CAP, CERAMIC	227 R224-225	CRD20TJ123T	RES, CARBON
C510-511	HCBS1H470JT	CAP, CERAMIC	R241-245	CRD20TJ470T	RES, CARBON
C128-129 C126-127	HCBS1H471KBT HCBS1H473ZFT	CAP, CERAMIC CAP, CERAMIC	R301, 304, 307- 308	- CRD20TJ472T	RES, CARBON
0120 121	11000111470211				
C227	HCBS1H561KBT	CAP, CERAMIC	R302-303, 309 R117-125, 138,		RES, CARBON
C154 C150	HCBS1H680JT HCBS1H681KBT	CAP, CERAMIC CAP, CERAMIC	251	01/02/01/03/02/1	RES, CARBON
D101-102, 204,	HVD1SS133MT	DIODE	R305	CRD20TJ224T	RES, CARBON
205–206, 301,			R403	CRD20TJ122T	RES, CARBON
			I		

PD-H300mk Ⅱ M

MAIN PCB ASSY (3/4)

MAIN PCB ASSY (4/4)

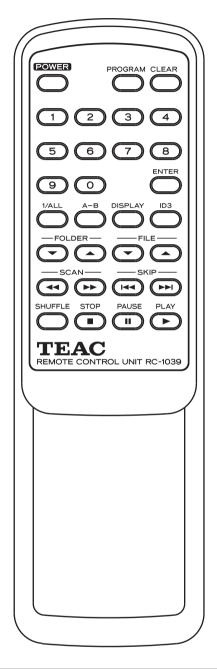
	. , ,			. , ,	
REF.NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
R507 R510-514 R509-513 S501-508	CRD20TJ151T CRD20TJ152T CRD20TJ182T CST1A012ZT C8ESM800	RES, CARBON RES, CARBON RES, CARBON SW, TACT FLUX	C407 FL51 IC11 IC12 IC13	CCEA1EH222E HFLHCA16SM11T HVITC94A54MFG01 HVITA2125AF HVIST92F124R9T6	CAP, ELECT F. I. P, DVD RECODER I. C, DIGITAL SERVO(CD/MP3/WMA) I. C, MOTOR DRIVER I. C, MCU (FLASH 64K , TQFP64)
BK51-52	H2K31161 H2K50301 K4FH300 K4FM073 CMD1A209	SOLDER, WIRE SOLDER, BAR TAPE, PROTECTIVE TAPE, BOTH SIDE BRACKET, FLT	IC14-15 IC16 IC17 IC18 IC41-42	HVINJM2068MDTE1 HVIRH5VT28C HVILM1117S-3V3 HVILM1117S-1V5 HVIKA7908A	I.C, OP AMP I.C, RESET I.C, REGULATOR (3.3V) I.C, L.D.O REGULATOR 1.5V FIXED I.C
BK53 BN14 BN15 BN19 CM16	CMD1A376 CWB1C912160BM CWZPDH300MKBN15 CWB1C904100BM CJP15GA117ZY	SUPPORT, LED WIRE ASS'Y WIRE ASS'Y (L,R-SHIELD) WIRE ASS'Y WAFER, CARD CABLE	IC43 IC44-45 JK31 JK32 JK33	HVIKA78R08 HVIMC7805C HJSTOTX177L CJJ4N031Z CJJ4N032Z	I.C, REGULATOR I.C, REGULATOR MODULE, OPTICAL(TX) JACK, BOARD JACK, BOARD
CN11 CN12 CN13 CN14 CN15	CJP05GA19ZY CJP06GA19ZY CJP16GA117ZY CJP12GA01ZY CJP12GA19ZY	WAFER, STRAIGHT, 5PIN WAFER, STRAIGHT, 6PIN WAFER WAFER WAFER	RS51 SW12 TM41 T401 A	KRVH1MF802H3-2 KSS2B016Z CMC1A111 CLT5M021YE H0X16934A120C	REMOTE CONTROL UNIT SWITCH, SLIDE PLATE, EARTH TRNAS, POWER (EUR) CRYSTAL
CN16 CN17 CN18 CN19 C402, 404	CJP15GA117ZY CJP07GA19ZY CJP02KA060ZY CJP04GB03ZY CCEA1EH102E	WAFER, CARD CABLE WAFER, STRAIGHT, 7PIN WAFER WAFER CAP, ELECT	X102	H0X04000E150C	CRYSTAL, 4MHZ

5 INCLUDED ACCESSORIES

INCLUDED ACCESSORIES

REF.NO. PARTS	S NO. DESCRIPTION	REMARKS
CJS4M CJS4N CQX1A	001Y CORD PIN 1067Z INSTRUCTION MANU 1068Z INSTRUCTION MANU 645X WARRANTY CARD	

6 REMOTE CONTROL LAYOUT



TEAC CORPORATION	3-7-3, Nakacho, Musashino-shi, Tokyo 180-8550, Japan Phone: (0422) 52-5081
TEAC AMERICA, INC.	7733 Telegraph Road, Montebello, California 90640 Phone: (323) 726-0303
TEAC CANADA LTD.	5939 Wallace Street, Mississauga, Ontario L4Z 1Z8, Canada Phone: (905) 890-8008
TEAC MEXICO, S.A. De C.V	Campesinos N° 184, Colonia Granjas Esmeralda, Delegacion Iztapalapa, CP 09810, México DF Phone: (525) 581-5500
TEAC UK LIMITE	Unit 19 & 20, The Courtyards, Hatters Lane, Watford, Hertfordshire, WD18 8TE , U.K. Phone: (0845) 130-2511
TEAC EUROPE GmbH	Bahnstrasse 12, 65205 Wiesbaden-Erbenheim, Germany Phone: 0611-71580
TEAC ITALIANA S.p.A.	Via C. Cantù 9/A, 20092 Cinisello Balsamo, Milano, Italy Phone: 02-66010500
TEAC AUSTRALIA PTY., LTD. A.B.N. 80 005 408 462	280 William Street, Melbourne VIC 3000, Australia Phone: (03) 9672-2400

